

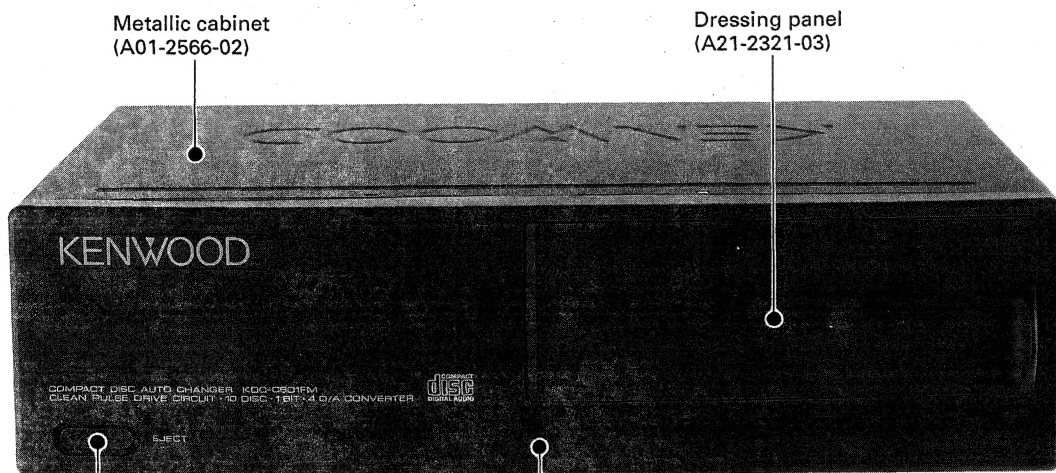
COMPACT DISC AUTO CHANGER

KDC-C601FM

SERVICE MANUAL

KENWOOD

© 1993-3 PRINTED IN JAPAN
B51-6580-00 (O) 2217



Metallic cabinet
(A01-2566-02)

Dressing panel
(A21-2321-03)

Knob
(K24-1326-04)

Panel ass'y
(A64-0107-03)

Cord with plug
(E30-4000-05)

Screw set
(N99-1576-15)

Holder
(J19-4468-04)

Holder ass'y
(J19-4409-22)

13P cord ass'y
(E30-4086-08)

RF modulator

Remote controller ass'y
(A70-0829-05)

Bracket (R)
(J19-4443-14)

Bracket (L)
(J19-4444-14)

Mounting hardware ass'y
(J21-7328-14)

Adhesive tape
(J69-0503-04)

ANT cord ass'y
(E30-3707-08)

Display ass'y
(T95-0211-08)

Accessory
(W01-0714-08)

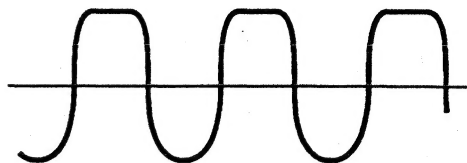
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ADJUSTMENT (RF MODULATOR)

RF MODULATOR

1. DC balance adjustment

Connect an oscilloscope to TP5. (AC)
Rotate VR302 to adjust the upper and lower sides of the displayed waveform are symmetry.

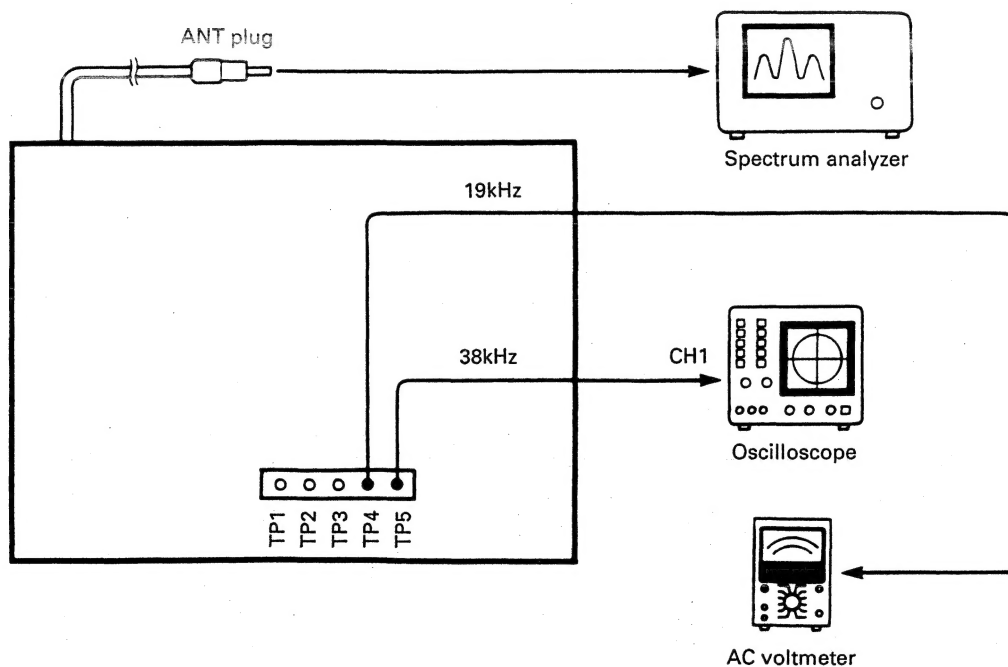


2. Pilot level adjustment

Connect an AC voltmeter to TP4.
Adjust VR303 so that the AC voltmeter reads 44mV ($\pm 0.5\text{dBm}$).

3. Transmitting frequency adjustment

Connect the spectrum analyzer to ANT plug.
Lo : Adjust TC301 so that the spectrum analyzer reads $88.3 \pm 0.005\text{MHz}$.
Hi : Adjust TC302 so that the spectrum analyzer reads $88.7 \pm 0.005\text{MHz}$.



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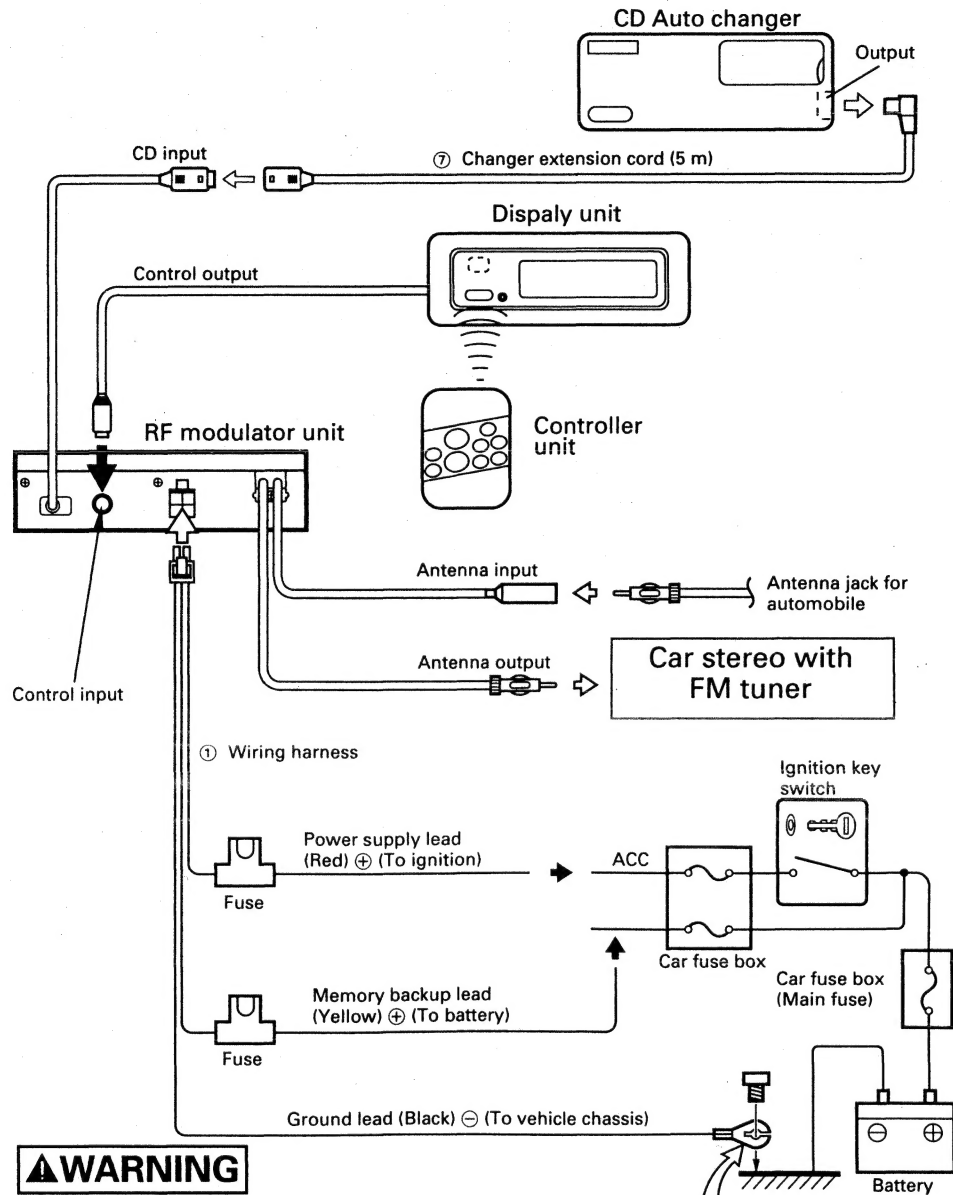
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KDC-C601FM

CONNECTIONS



⚠ WARNING

- To prevent fires when the Power supply lead (Red) and the Memory backup lead (Yellow) are short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections first.

Connect the ground lead to the metal part which is connected to the ⊖ terminal of the battery.

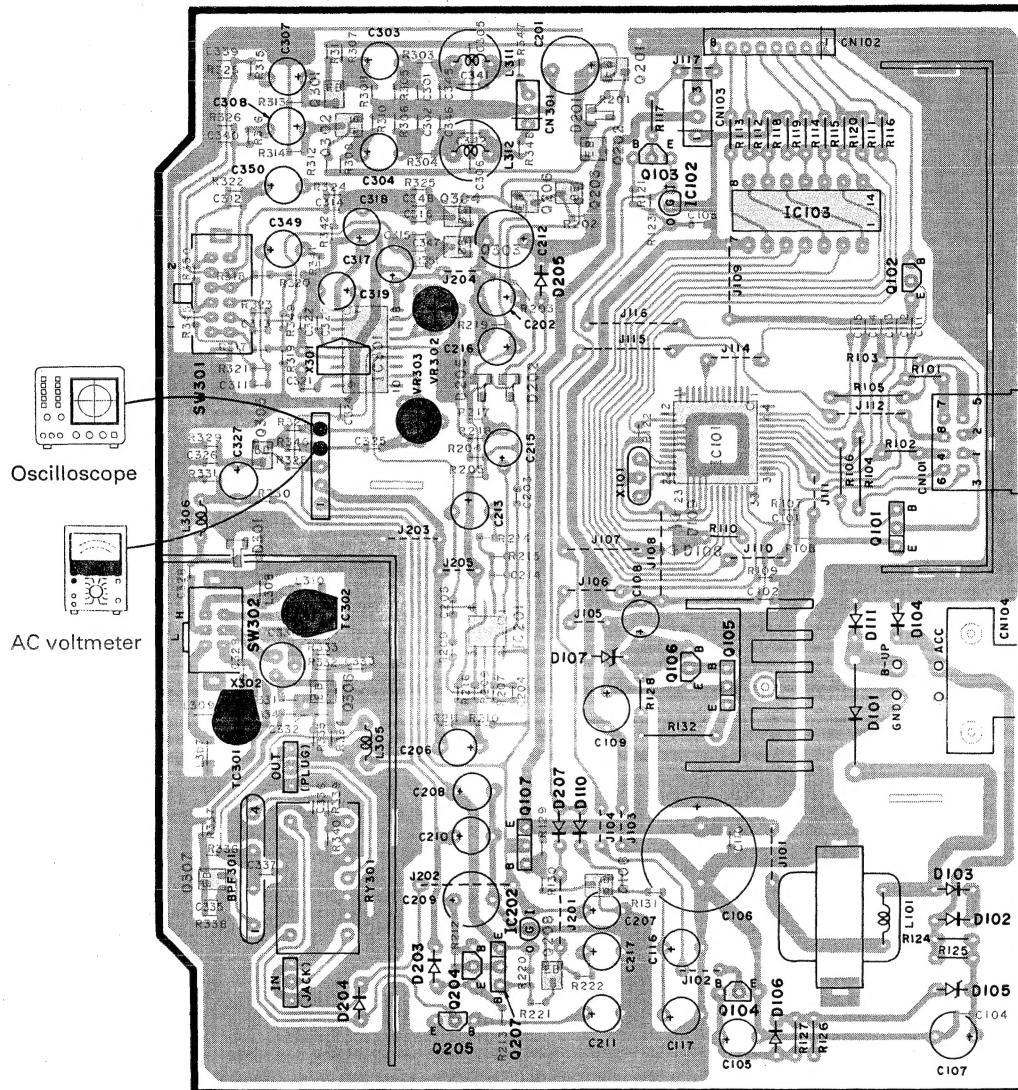
7

AC voltmeter

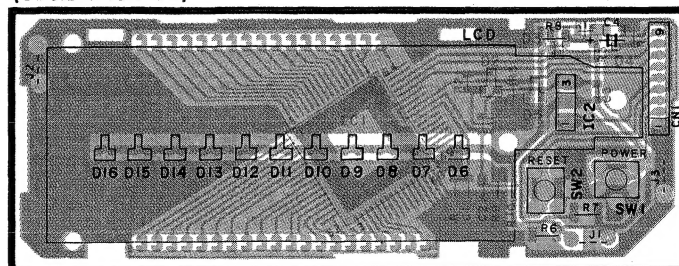
5

PC BOARD (FOIL SIDE VIEW) : RF MODULATOR

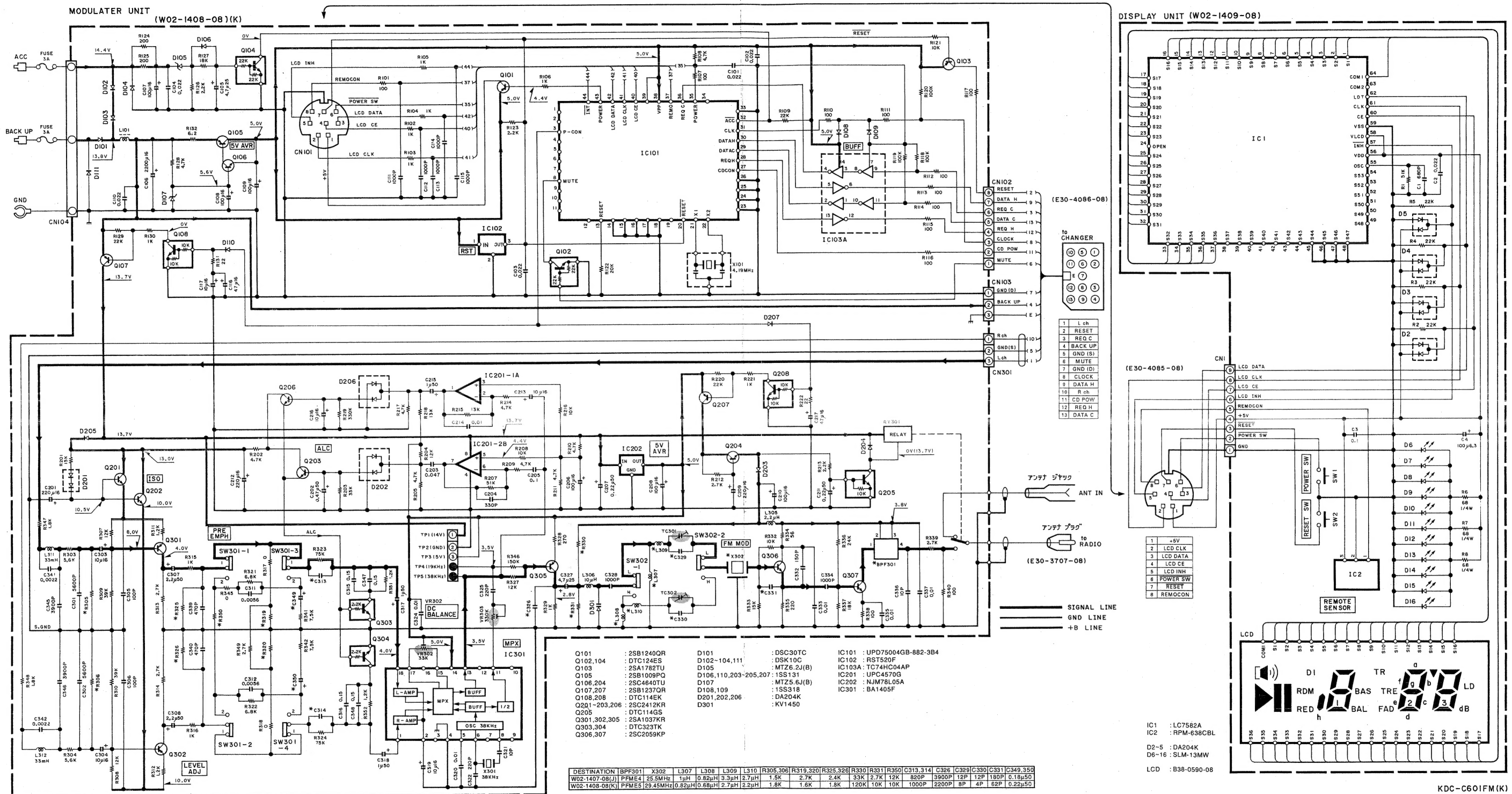
MODULATOR UNIT
(W02-1408-08)



DISPLAY UNIT
(W02-1409-08)



Refer to the schematic diagram for the values of resistors and capacitors.



• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

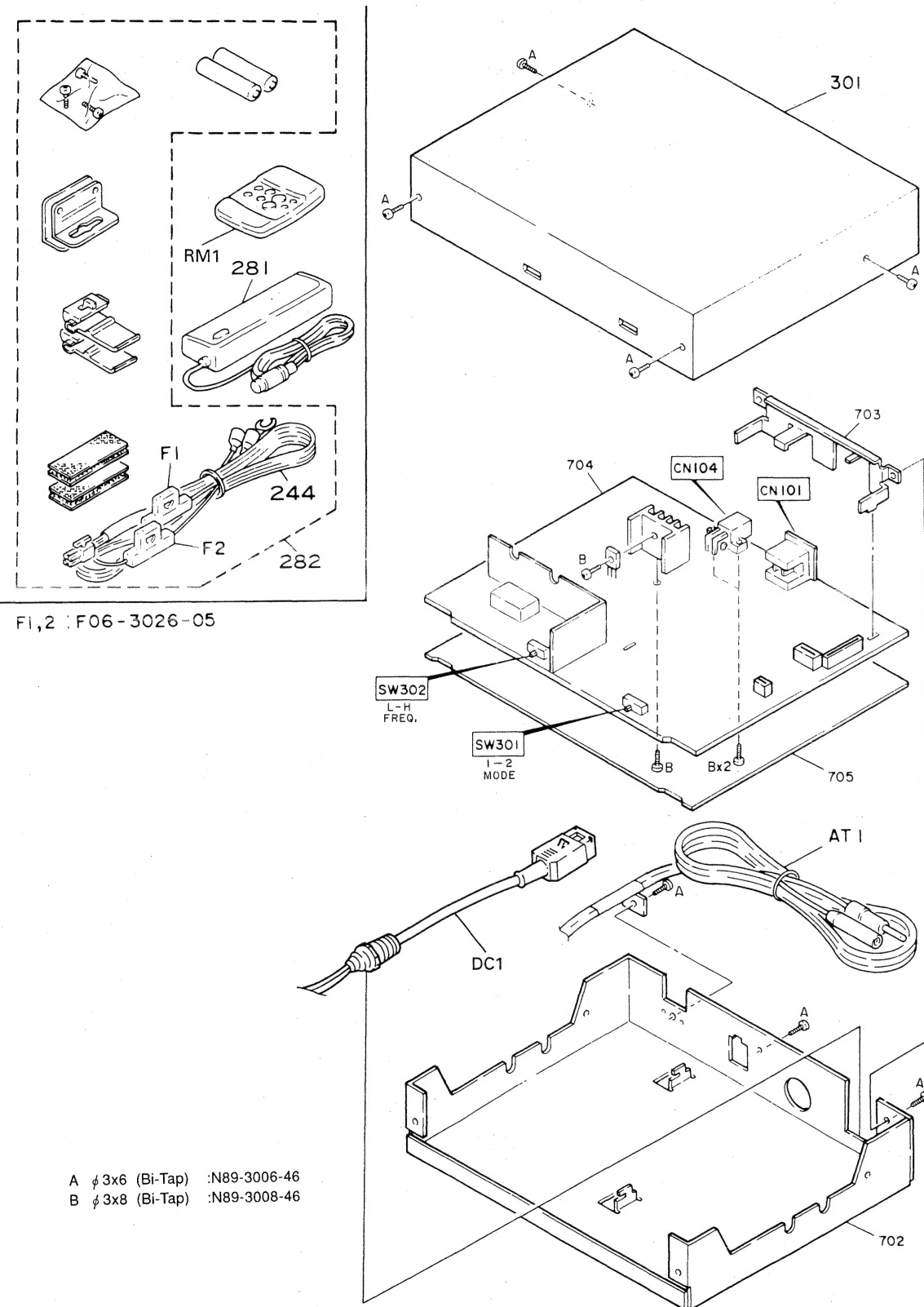
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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Y22-5000-11

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EXPLODED VIEW (RF MODULATOR)



Parts with the exploded numbers larger than 700 are not supplied.

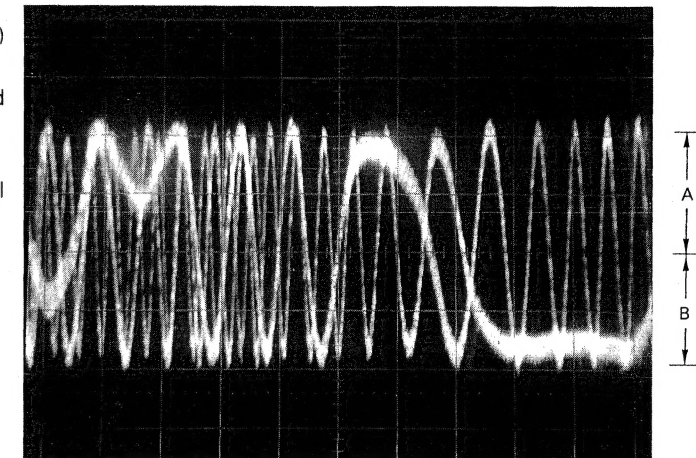
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ADJUSTMENT

1. Tracking offset adjustment

1. Connect a test jumper wire between the test point (TEST2) and (+5 V).
2. Connect a test jumper wire between the test point (TOFF) and (Vref).
3. Connect an oscilloscope between the test point (TE) and (Vref).
4. Put the set into play mode by loading the disc.
5. Adjust VR2 so that the oscilloscope reading is symmetrical in relation to 0 V.
6. After adjusting, reset 1 and 2 as original.

Volt/Div: 200 mV Timer/Div: 0.5 μ sec.



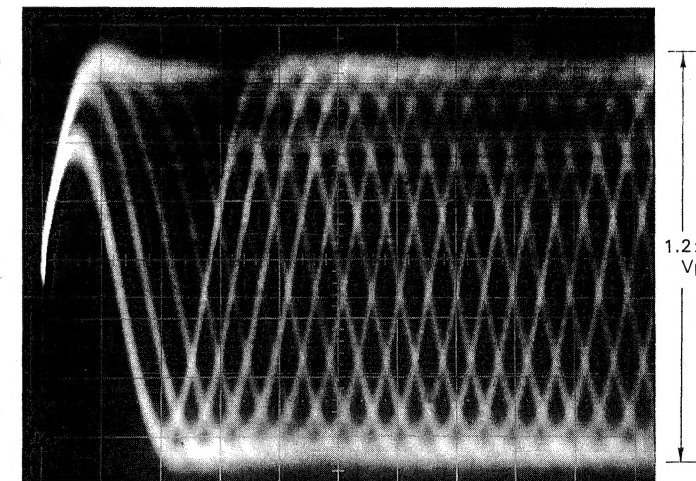
A=B

2. Focus offset adjustment

1. Connect an oscilloscope to the test point (RF).
2. Put the set into play mode by loading the disc.
3. Adjust VR1 so that the oscilloscope waveform eye pattern is good.

A good eye pattern means that the diamond shape (\diamond) in the center of the oscilloscope can be clearly distinguished.

Volt/Div: 200 mV Timer/Div: 0.5 μ sec.



1.2 \pm 0.3
Vp-p

1

2

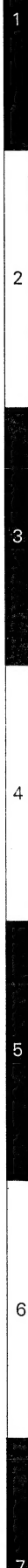
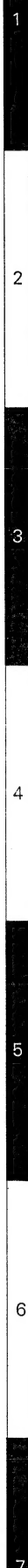
3

4

5

6

7



1

2

3

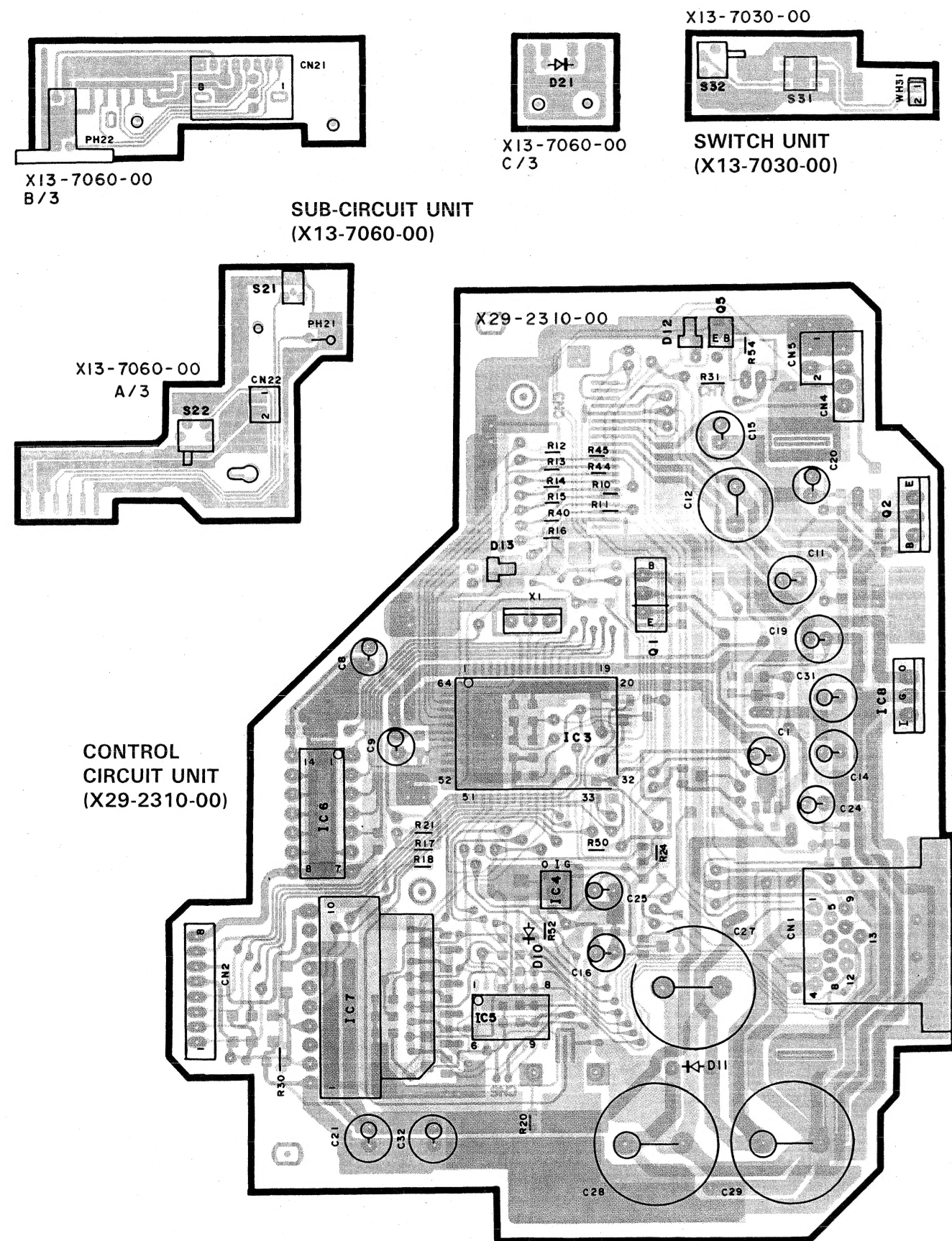
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5

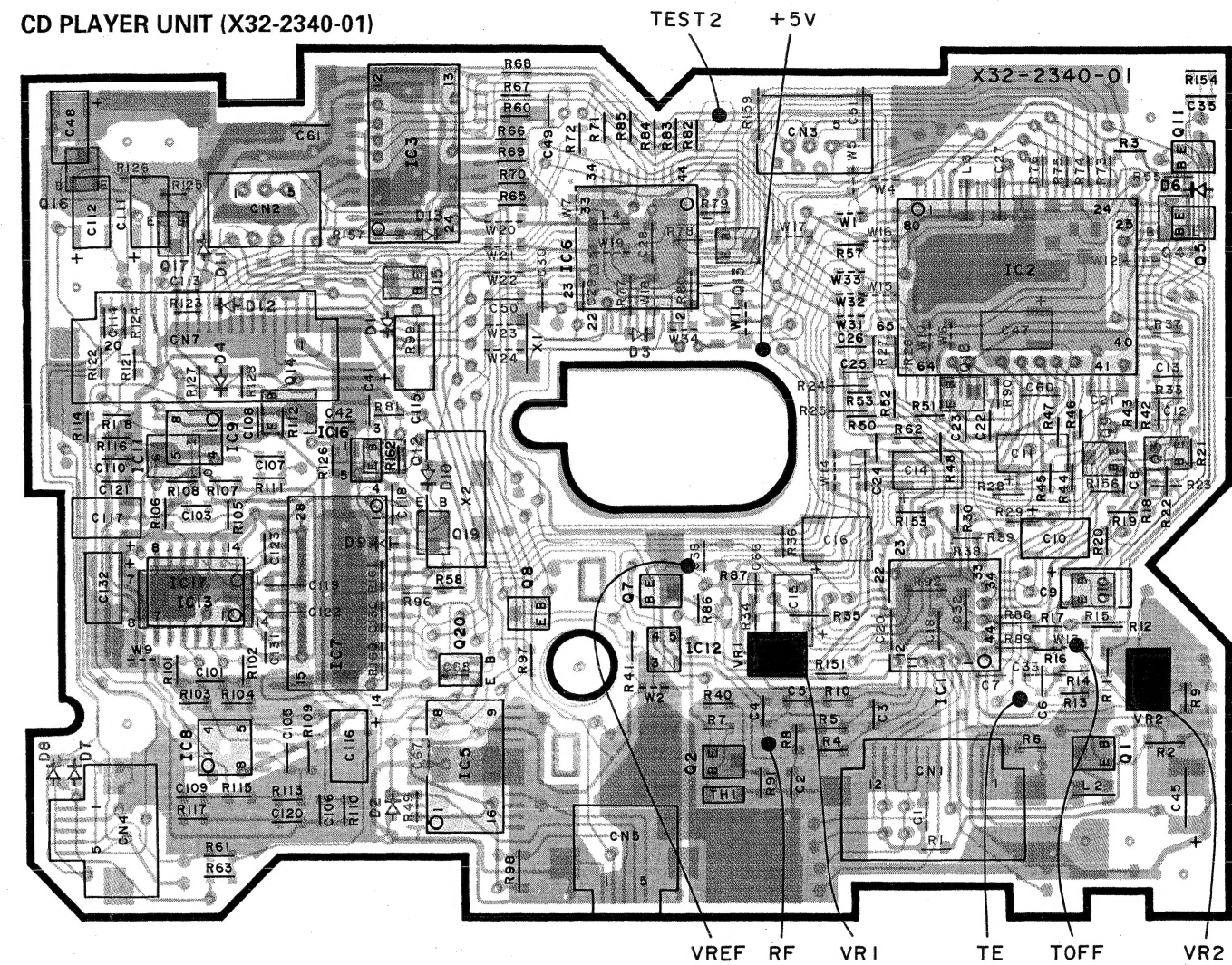
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7

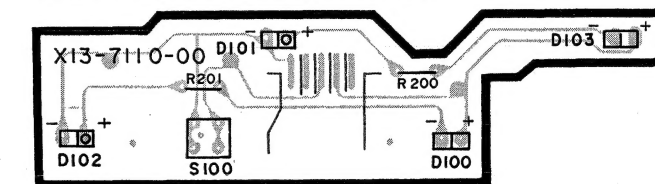
PC BOARD (FOIL SIDE VIEW)



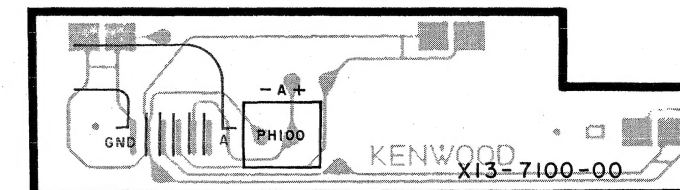
CD PLAYER UNIT (X32-2340-01)



SUB CIRCUIT UNIT (X13-7110-00)

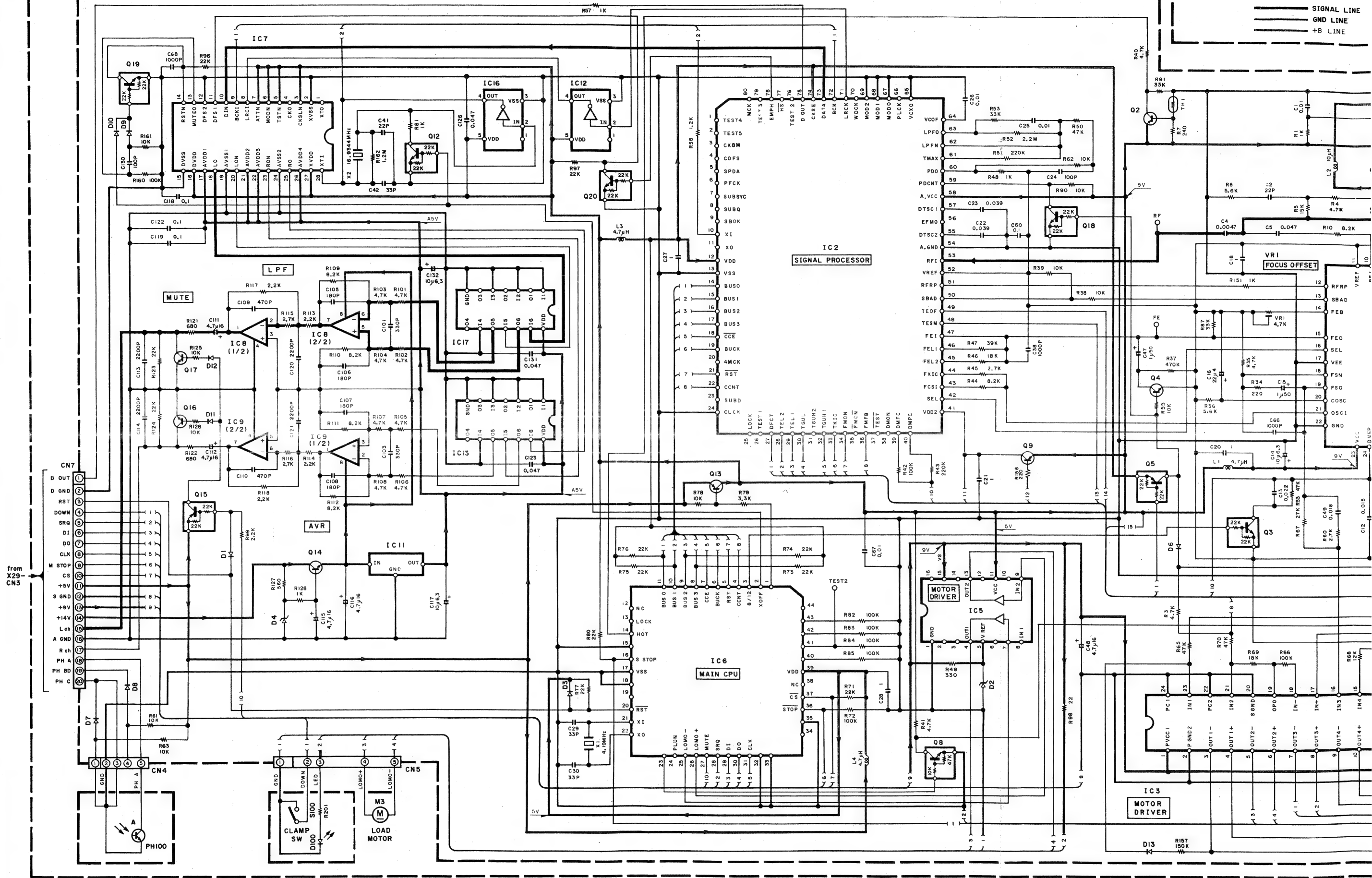


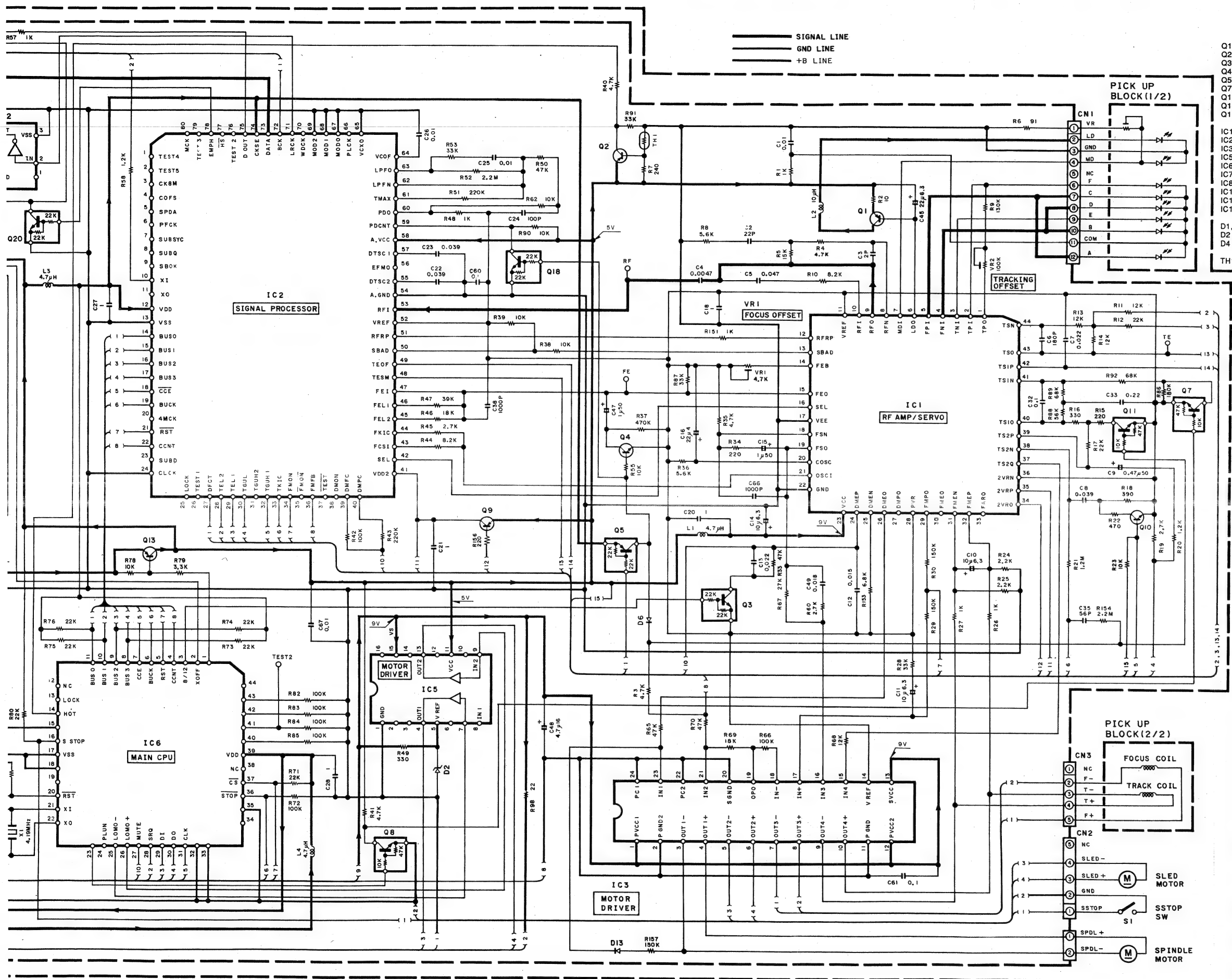
SUB CIRCUIT UNIT (X13-7100-00)



Refer to the schematic diagram for the values of resistors and capacitors.

CD MECHA. ASS'Y (X92-1660-OX)
(X32-2340-01)

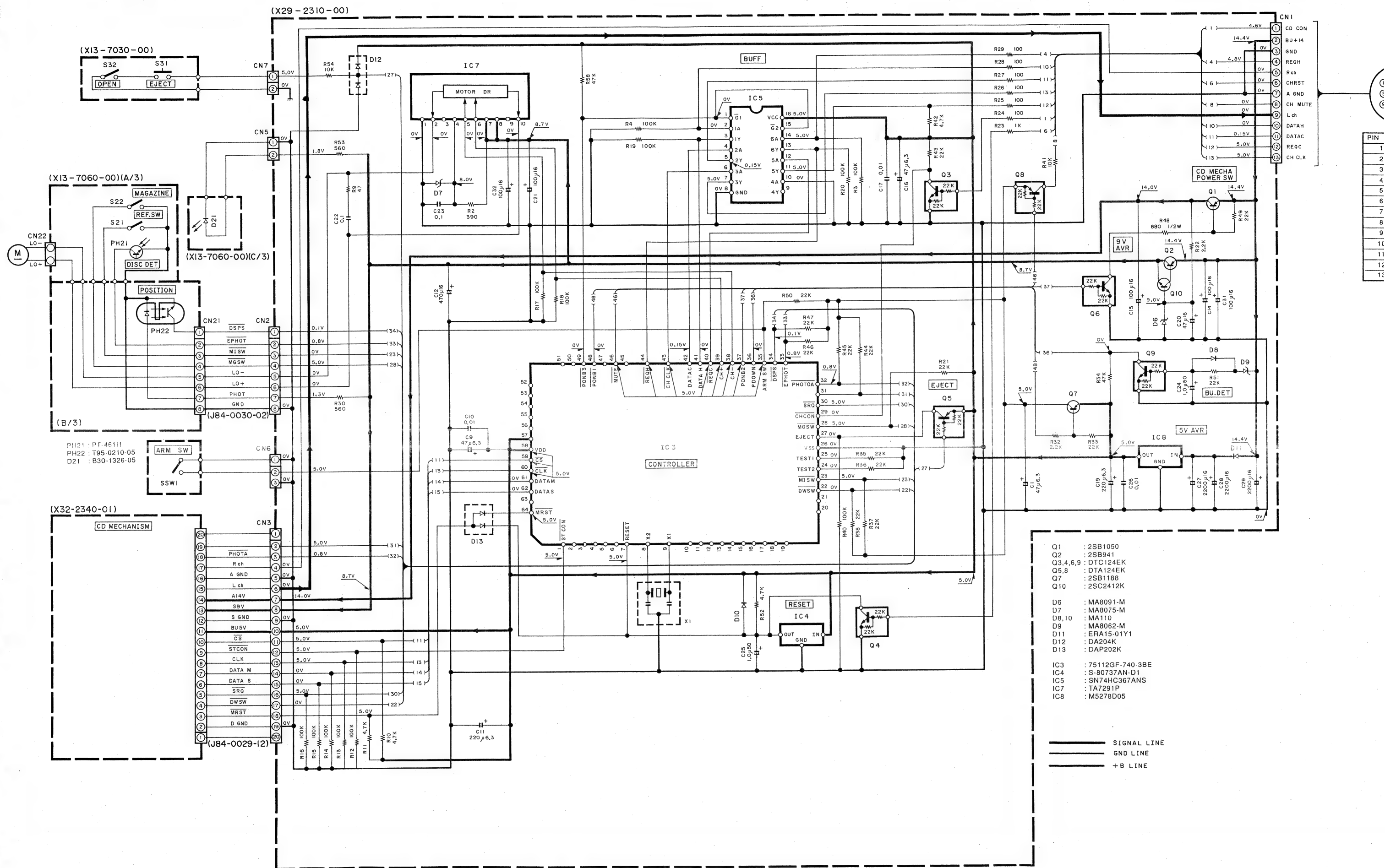


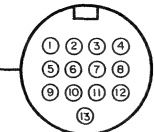
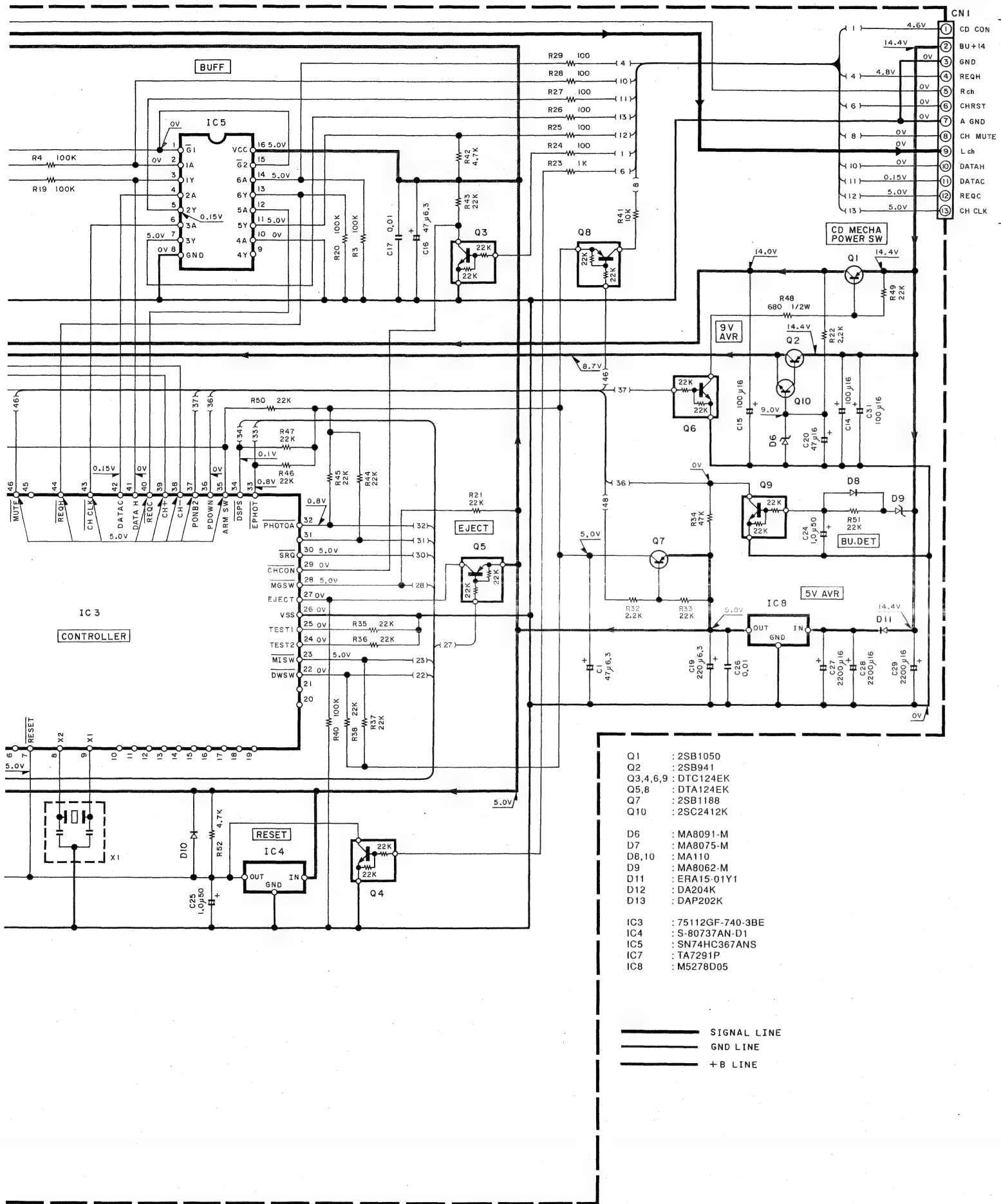


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CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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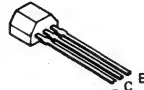


PIN No.	PIN NAME
1	CD CON
2	BU +14V
3	GND
4	REQH
5	R ch
6	CHRST
7	A GND
8	CH MUTE
9	L ch
10	DATAH
11	DATAC
12	REQC
13	CHCLK

2SB1009



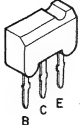
DTC124ES



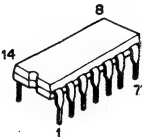
DTA124EK
DTC114YK
DTC323TK
2SA1362
2SC2412K

DTC114EK
DTC124EK
2SA1037K
2SB624
2SD1757K

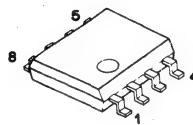
2SB1050



TC74HC04AP



NJM4565MD
UPC4570G



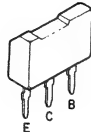
2SB1188
2SD1624



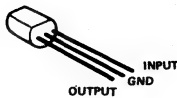
2SB941



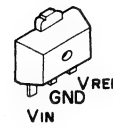
2SB1237



NJM78L05A-T3



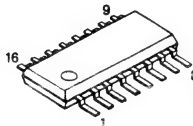
TA78L05F



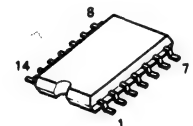
TA7291P



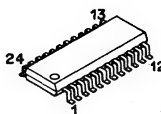
SN74HC367ANS



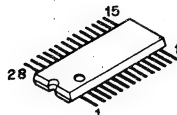
TC74AC04F



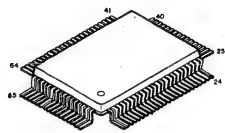
AN8388SR



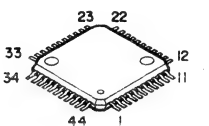
SM5871AS



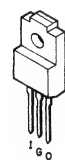
TC9236AF



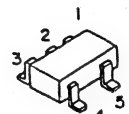
TA8191F
75008GB-696-3BE



M5278D05



TC7SU04F

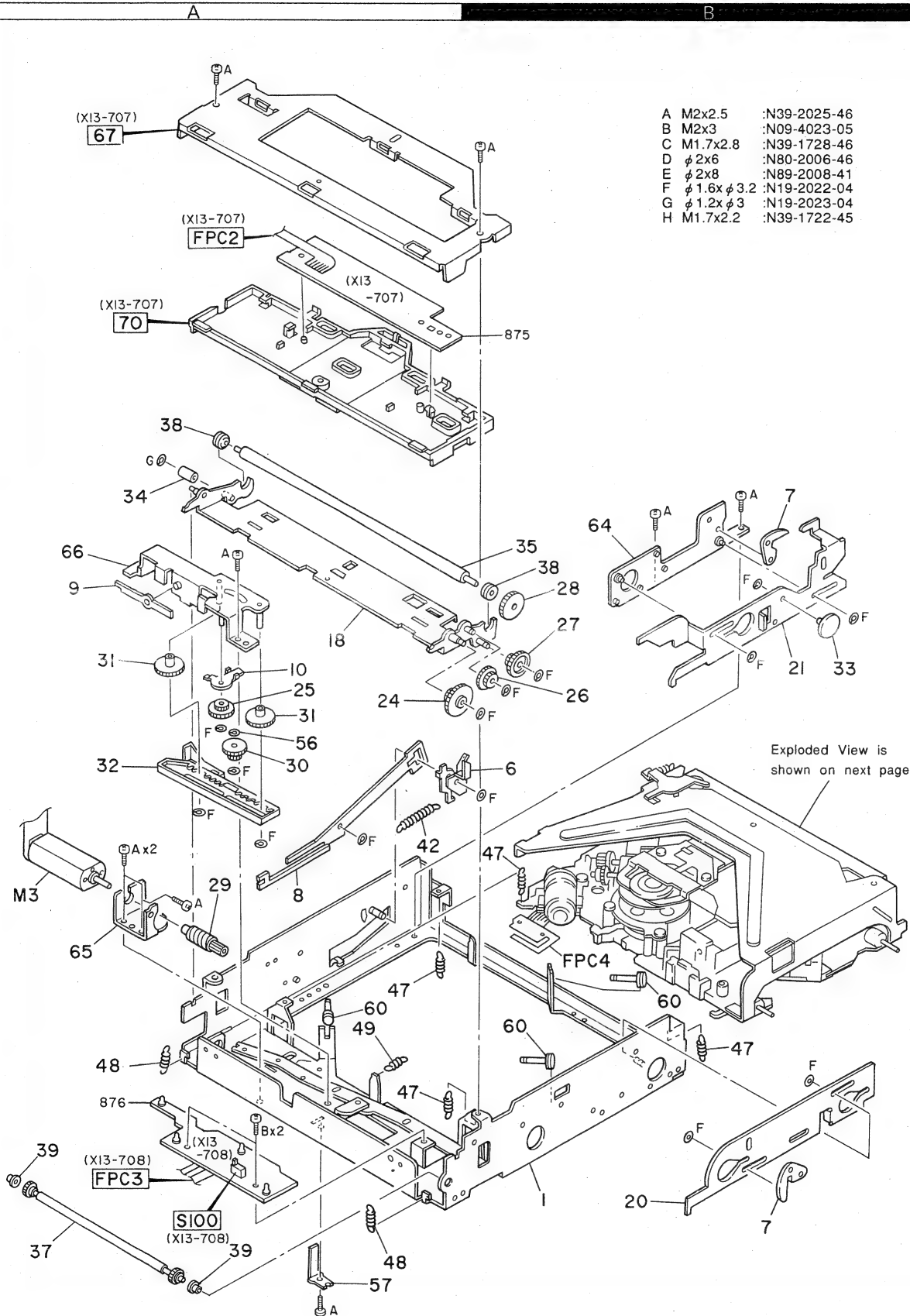


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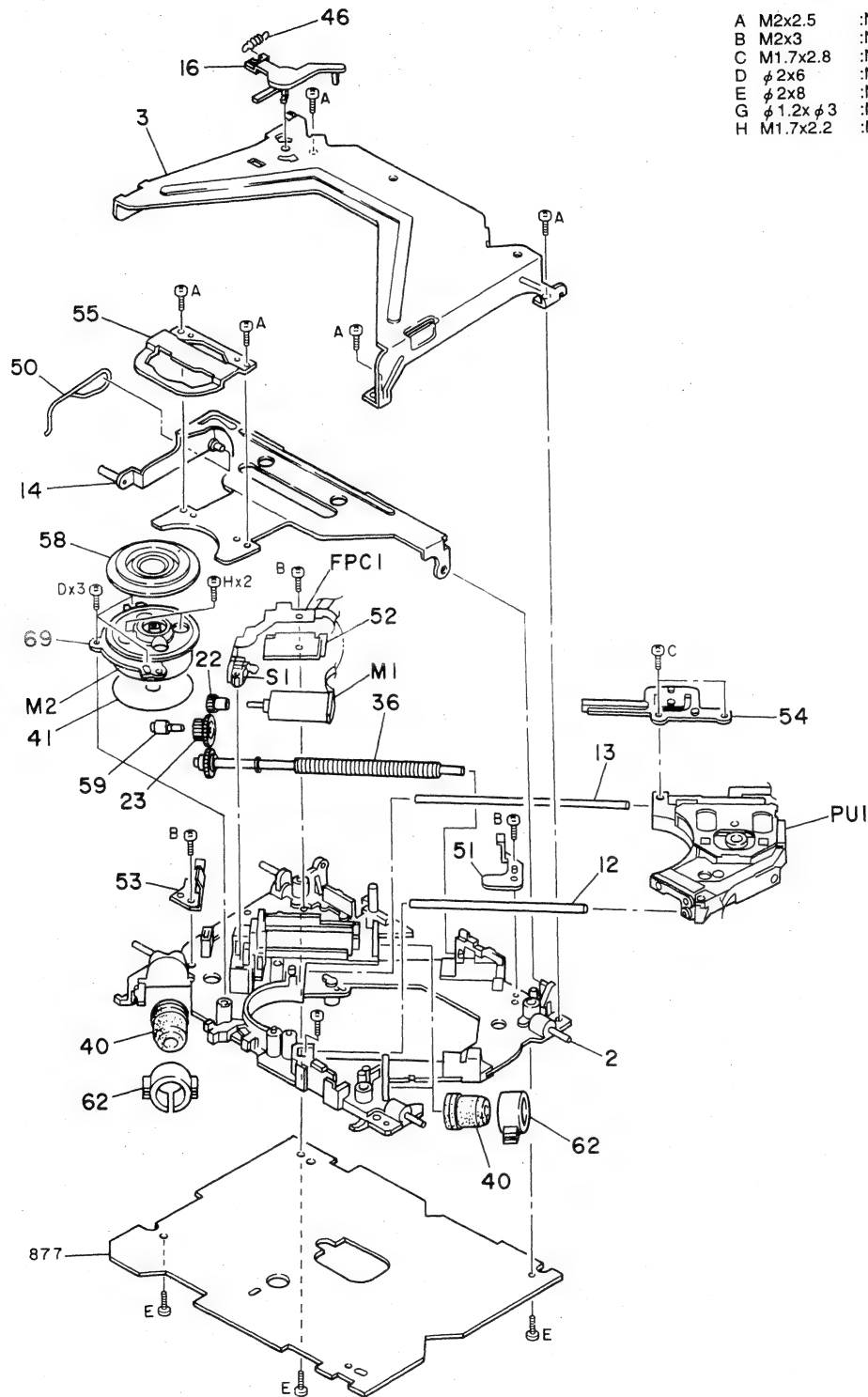
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EXPLODED VIEW (MECHANISM)



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EXPLODED VIEW (MECHANISM)



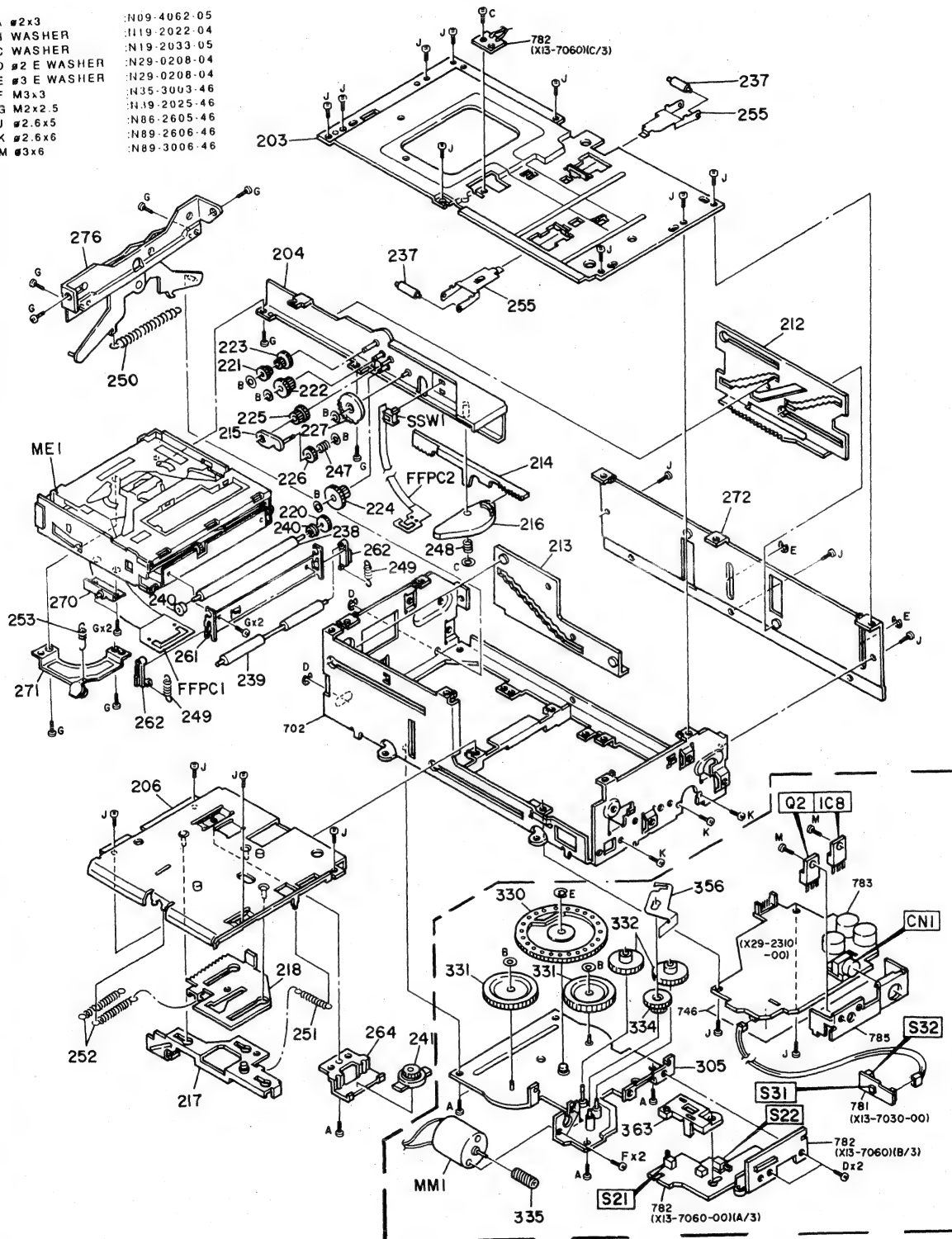
A	M2x2.5	:N39-2025-46
B	M2x3	:N09-4023-05
C	M1.7x2.8	:N39-1728-46
D	φ 2x6	:N80-2006-46
E	φ 2x8	:N89-2008-41
G	φ 1.2x φ 3	:N19-2023-04
H	M1.7x2.2	:N39-1722-45

Parts with the exploded numbers larger than 700 are not supplied.

KDC-C601FM

EXPLODED VIEW (UNIT)

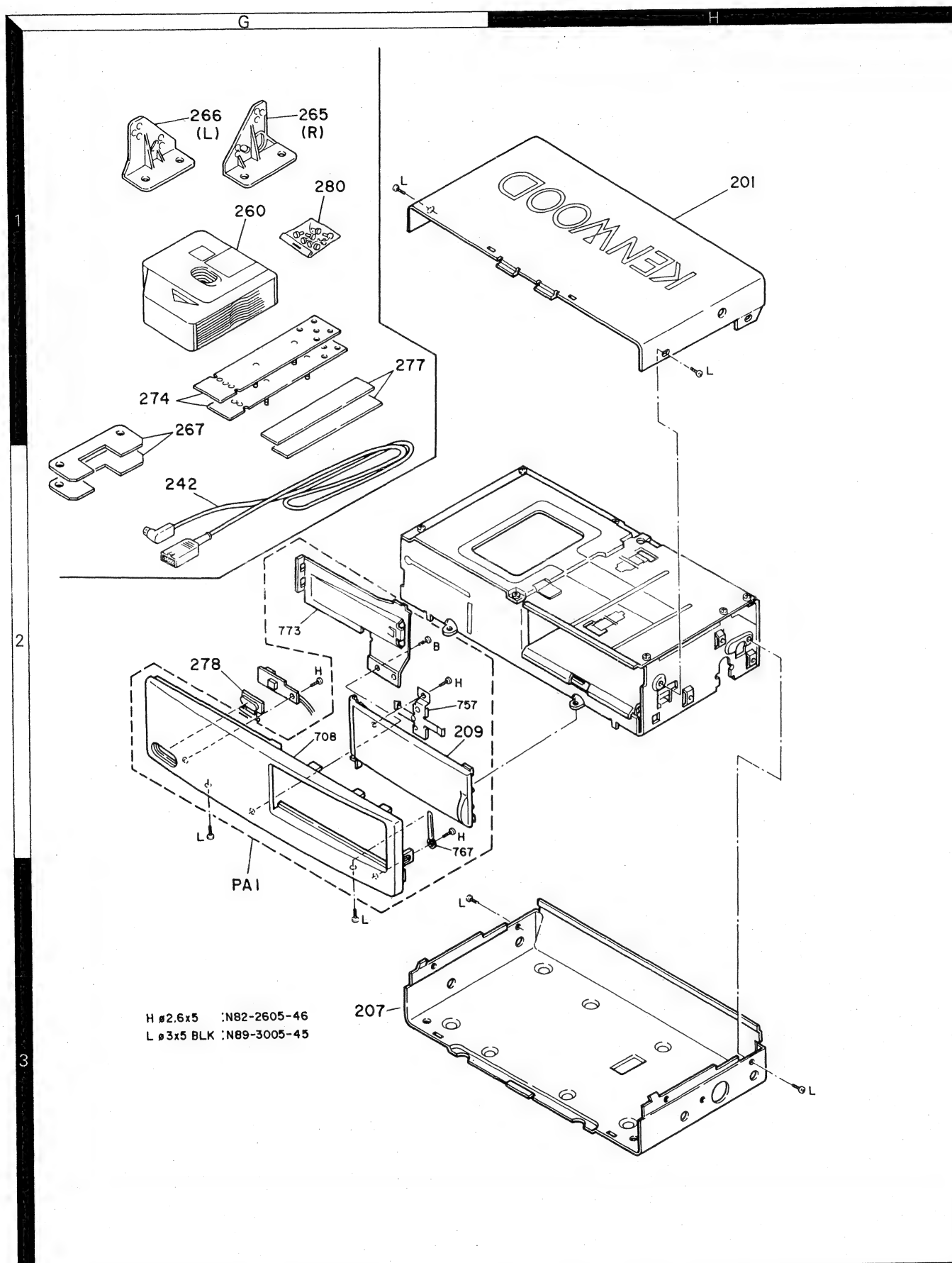
A #2x3	N09-4062-05
B WASHER	N119-2022-04
C WASHER	N19-2033-05
D #2 E WASHER	N29-0208-04
E #3 E WASHER	N29-0208-04
F M3x3	N35-3003-46
G M2x2.5	N19-2025-46
J #2.6x5	N86-2605-46
K #2.6x6	N89-2606-46
M #3x6	N89-3006-46



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KDC-C601FM

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KDC-C601FM

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
KDC-C601FM						
201	1H	*	A01-2566-02	METALLIC CABINET		
203	1E, 1F	*	A10-2132-22	CHASSIS		
204	1E	*	A10-2133-23	CHASSIS CALKING ASSY		
206	3E	*	A10-2137-03	CHASSIS CALKING ASSY		
207	3H	*	A10-2224-02	CHASSIS		
209	2G	*	A21-2321-03	DRESSING PANEL		
PA1	2G	*	A64-0107-03	PANEL ASSY		
RM1	1I	*	A70-0829-05	REMOTE CONTROLLER ASSY		
-			B46-0100-20	WARRANTY CARD		
-			B46-0172-03	QUESTIONNAIRE CARD		
-		*	B64-0274-00	INST. MANUAL (EN, FR, NE, IT, SP, GE)		
212	1F		D10-2718-03	SLIDER		
213	2F		D10-2719-04	SLIDER ASSY		
214	2E		D10-2723-13	SLIDER		
215	1E		D10-2724-04	ARM ASSY		
216	2E		D10-2726-04	LEVER		
217	3E		D10-2729-54	LEVER ASSY		
218	3E		D10-2733-04	SLIDER		
220	2E		D13-1044-24	GEAR		
221	1E		D13-1089-14	GEAR		
222	1E		D13-1090-04	GEAR		
223	1E		D13-1091-04	GEAR		
224	2E	*	D13-1092-14	GEAR		
225	1E		D13-1093-04	GEAR		
226	2E		D13-1094-04	GEAR		
227	1E	*	D13-1095-13	GEAR		
237	1E, 1F		D14-0625-04	ROLLER		
238	2E		D14-0626-13	ROLLER		
239	2E		D14-0627-03	ROLLER		
240	2E		D23-0905-24	RETAINER		
241	3E		D39-0213-05	DAMPER		
242	1G		E30-4000-05	CORD WITH PLUG		
247	2E		G01-2592-04	COMPRESSION SPRING		
248	2E		G01-2593-04	COMPRESSION SPRING		
249	2E		G01-2594-04	EXTENSION SPRING		
250	1E		G01-2595-04	EXTENSION SPRING		
251	1E		G01-2596-04	EXTENSION SPRING		
252	3E		G01-2597-24	EXTENSION SPRING		
255	1F		G02-1142-04	FLAT SPRING		
-			H10-4399-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-4414-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-4443-08	POLYSTYRENE FOAMED FIXTURE		
-		*	H13-1598-08	PACKING FIXTURE		
-			H25-0336-04	PROTECTION BAG (170X250X0.03)		
-		*	H25-0338-08	PROTECTION BAG		
-			H25-1110-04	PROTECTION BAG (300X450X0.5)		
-		*	H54-0060-04	ITEM CARTON CASE		
-		*	H64-0062-04	OUTER CARTON CASE		
260	1G		J19-4409-22	HOLDER ASSY		
261	2E		J19-4414-14	HOLDER		
262	2E		J19-4415-04	HOLDER		

E: Europe W: Without Europe P: Canada X: Australia

K: U.S.A. and Canada M: Without Europe, U.S.A. and Canada

▲ indicates safety critical components.

KDC-C601FM

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
265	1G		J19-4443-14	BRACKET		
266	1G		J19-4444-14	BRACKET		
267	1G		J19-4468-04	HOLDER		
270	2E		J21-7283-04	MOUNTING HARDWARE ASSY		
272	2F		J21-7292-13	MOUNTING HARDWARE ASSY		
274	1G		J21-7328-14	MOUNTING HARDWARE ASSY		
276	1E		J21-7347-23	MOUNTING HARDWARE ASSY		
277	1G		J69-0503-04	ADHESIVE TAPE		
FFPC1	2E		J84-0029-12	FLEXIBLE PRINTED WIRING BOARD		
FFPC2	2E		J84-0030-02	FLEXIBLE PRINTED WIRING BOARD		
278	2G	*	K24-1326-04	KNOB		
280	1G		N99-1576-15	SCREW SET		
-			N80-2006-45	PAN HEAD TAPTITE SCREW		
-			N86-2604-45	BINDING HEAD TAPTITE SCREW		
A	3E		N09-4062-05	TAPTITE SCREW (2X 3,+Sヤイト)		
B	2E, 3F		N19-2022-04	FLAT WASHER		
C	2E		N19-2033-05	FLAT WASHER		
D	1E		N29-0206-04	RETAINING RING (2マール)		
E	2F, 3F		N29-0208-04	RETAINING RING (3マール)		
G	2E		N39-2025-46	PAN HEAD MACHIN SCREW		
H	2G		N82-2605-46	BINDIG HEAD TAPTITE SCREW		
J	1F, 3E		N86-2605-46	BINDING HEAD TAPTITE SCREW		
K	2F		N89-2606-46	BINDING HEAD TAPTITE SCREW		
L	2G, 3H		N89-3005-45	BINDING HEAD TAPTITE SCREW		
SSW1	1E		S74-0802-05	MICRO SWITCH		
281	1I	*	T95-0211-08	DISPLAY ASSY		
282	1I	*	W01-0714-08	ACCESSORY		
RF1	3J	*	W02-1393-05	TRANSMITTING ASSY		
ME1	2E	*	X92-1660-07	MECHANISM ASSY		
SWITCH UNIT (X13-7030-00)						
WH31		*	E31-8280-05	WIRING HARNESS		
S31			S40-1607-05	PUSH SWITCH		
S32		*	S40-1139-05	PUSH SWITCH		
SUB-CIRCUIT UNIT (X13-7060-00)						
305	3F		A10-2135-13	CHASSIS CALKING ASSY		
D21			B30-1326-05	LED		
330	3F		D13-1096-13	GEAR		
331	3F		D13-1097-04	GEAR		
332	3F		D13-1099-04	GEAR		
334	3F		D13-1100-04	GEAR		
335	3F		D13-1101-04	WORM		
CN21			E40-5459-05	SOCKET FOR PIN ASSY		
CN22			E40-3246-05	PIN ASSY		
356	3F		G02-1143-04	FLAT SPRING		
363	3F		J19-4416-04	HOLDER		
A	3E		N09-4062-05	TAPTITE SCREW (2X 3)		
B	3E		N19-2022-04	FLAT WASHER		

E: Europe W: Without Europe P: Canada X: Australia

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KDC-C601FM

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R21			RK73FB2A223J	CHIP R 22K J 1/10W		
R23			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R24 -29			RK73FB2A101J	CHIP R 100 J 1/10W		
R30			RK73EB2B561J	CHIP R 560 J 1/8W		
R32			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R33			RK73FB2A223J	CHIP R 22K J 1/10W		
R34			RK73FB2A473J	CHIP R 47K J 1/10W		
R35 -38			RK73FB2A223J	CHIP R 22K J 1/10W		
R40			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R41			RK73FB2A103J	CHIP R 10K J 1/10W		
R42			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R43 -47			RK73FB2A223J	CHIP R 22K J 1/10W		
R48			R92-2063-05	CHIP R 680 J 1/2W		
R49 -51			RK73FB2A223J	CHIP R 22K J 1/10W		
R52			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R53			RK73EB2B561J	CHIP R 560 J 1/8W		
R54			RK73FB2A103J	CHIP R 10K J 1/10W		
R55			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R58			RK73FB2A473J	CHIP R 47K J 1/10W		
W1 ,2			R92-2053-05	CHIP R 0 J 1/8W		
D6			MA8091-M	ZENER DIODE		
D7			MA8075-M	ZENER DIODE		
D8			MA110	DIODE		
D9			MA8062-M	ZENER DIODE		
D10			MA110	DIODE		
D11		*	ERA15-01	DIODE		
D12			DA204K	DIODE		
D13			DAP202K	DIODE		
IC3		*	75112GF-740-3BE	IC		
IC4			S-80737AN-D1	IC		
IC5			SN74HC367ANS	IC		
IC7			TA7291P	IC(MOTOR DRIVER)		
IC8			M5278D05	IC(VOLTAGE REGULATOR)		
Q1			2SB1050	TRANSISTOR		
Q2			2SB941	TRANSISTOR		
Q3 ,4			DTC124EK	DIGITAL TRANSISTOR		
Q5			DTA124EK	DIGITAL TRANSISTOR		
Q6			DTC124EK	DIGITAL TRANSISTOR		
Q7			2SB1188	TRANSISTOR		
Q8			DTA124EK	DIGITAL TRANSISTOR		
Q9			DTC124EK	DIGITAL TRANSISTOR		
Q10			2SC2412K	TRANSISTOR		
CD PLAYER UNIT (X32-2340-01)						
C1			CK73FB1H103K	CHIP C 0.010UF K		
C2			CC73FCH1H220J	CHIP C 22PF J		
C3			CC73FCH1H020C	CHIP C 2.0PF C		
C4			CK73FB1H472K	CHIP C 4700PF K		
C5			CK73FB1E473KTA	CHIP C 0.047UF K		
C6			CC73FCH1H181J	CHIP C 180PF J		
C7			CK73FB1H223KTA	CHIP C 0.022UF K		
C8			CK73FB1E393KTA	CHIP C 0.039UF K		
C9			C92-1025-05	ELECTRO 0.47UF 50WV		
C10 ,11			C92-1020-05	ELECTRO 10UF 6.3WV		
C12			CK73FB1H153K	CHIP C 0.015UF K		

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C13			CK73FB1H223KTA	CHIP C 0.022UF K		
C14			C92-1020-05	ELECTRØ 10UF 6.3WV		
C15			C92-1026-05	ELECTRØ 1UF 50WV		
C16			C92-1023-05	ELECTRØ 22UF 4.0WV		
C18			CK73EF1C105Z	CHIP C 1.0UF Z		
C20 ,21			CK73EF1C105Z	CHIP C 1.0UF Z		
C22 ,23			CK73FB1E393KTA	CHIP C 0.039UF K		
C24			CC73FCH1H101J	CHIP C 100PF J		
C25 ,26			CK73FB1H103K	CHIP C 0.010UF K		
C27 ,28			CK73EF1C105Z	CHIP C 1.0UF Z		
C29 ,30			CC73FCH1H330J	CHIP C 33PF J		
C32			CK73EB1E104K	CHIP C 0.10UF K		
C33			CK73EB1E224K	CHIP C 0.22UF K		
C35			CC73FCH1H560J	CHIP C 56PF J		
C38			CK73FB1H102K	CHIP C 1000PF K		
C41			CC73FCH1H220J	CHIP C 22PF J		
C42			CC73FCH1H330J	CHIP C 33PF J		
C45			C92-0012-05	TANTAL 22UF 6.3WV		
C47			C92-1026-05	ELECTRØ 1UF 50WV		
C48			C92-1019-05	ELECTRØ 4.7UF 16WV		
C49			CK73FB1H183KTA	CHIP C 0.018UF K		
C60 ,61			CK73EB1E104K	CHIP C 0.10UF K		
C66			CK73FB1H102K	CHIP C 1000PF K		
C67			CK73FB1H103K	CHIP C 0.010UF K		
C68			CK73FB1H102K	CHIP C 1000PF K		
C101			CK73FB1H331K	CHIP C 330PF K		
C103			CK73FB1H331K	CHIP C 330PF K		
C105-108			CC73FCH1H181J	CHIP C 180PF J		
C109,110			CK73FB1H471K	CHIP C 470PF K		
C111,112			C92-1019-05	ELECTRØ 4.7UF 16WV		
C113,114			C93-1044-05	CERAMIC 2200PF K		
C115,116			C92-1019-05	ELECTRØ 4.7UF 16WV		
C117			C92-1020-05	ELECTRØ 10UF 6.3WV		
C118,119			CK73EB1E104K	CHIP C 0.10UF K		
C120,121			C93-1044-05	CERAMIC 2200PF K		
C122			CK73EB1E104K	CHIP C 0.10UF K		
C123			CK73FB1E473KTA	CHIP C 0.047UF K		
C126			CK73FB1E473KTA	CHIP C 0.047UF K		
C130			CC73FCH1H101J	CHIP C 100PF J		
C131			CK73FB1E473KTA	CHIP C 0.047UF K		
C132			C92-1020-05	ELECTRØ 10UF 6.3WV		
CN1			E40-9251-05	FLAT CABLE CONNECTOR		
CN2			E40-9244-05	FLAT CABLE CONNECTOR		
CN3			E40-5266-05	FLAT CABLE CONNECTOR		
CN4			E40-5294-05	FLAT CABLE CONNECTOR		
CN5			E40-9256-05	FLAT CABLE CONNECTOR		
CN7			E40-9252-05	FLAT CABLE CONNECTOR		
L1			L33-0916-05	SMALL FIXED INDUCTOR		
L2			L40-1001-31	SMALL FIXED INDUCTOR(10UH)		
L3 ,4			L33-0916-05	SMALL FIXED INDUCTOR		
X1			L78-0505-05	RESONATOR		
X2			L77-2011-05	CRYSTAL RESONATOR(16.9344MHZ)		

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R1			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R2			RK73EB2B100J	CHIP R 10 J 1/8W		
R3 , 4			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R5			RK73FB2A153J	CHIP R 15K J 1/10W		
R6			RK73FB2A910J	CHIP R 91 J 1/10W		
R7			RK73FB2A241J	CHIP R 240 J 1/10W		
R8			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R9			RK73FB2A134J	CHIP R 130K J 1/10W		
R10			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R11			RK73FB2A123J	CHIP R 12K J 1/10W		
R12			RK73FB2A223J	CHIP R 22K J 1/10W		
R13 , 14			RK73FB2A123J	CHIP R 12K J 1/10W		
R16			RK73FB2A331J	CHIP R 330 J 1/10W		
R17			RK73FB2A223J	CHIP R 22K J 1/10W		
R18			RK73FB2A391J	CHIP R 390 J 1/10W		
R19			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R20			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R21			RK73FB2A125J	CHIP R 1.2M J 1/10W		
R22			RK73FB2A471J	CHIP R 470 J 1/10W		
R23			RK73FB2A103J	CHIP R 10K J 1/10W		
R24 , 25			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R26 , 27			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R28			RK73FB2A333J	CHIP R 33K J 1/10W		
R29 , 30			RK73FB2A154J	CHIP R 150K J 1/10W		
R33			RK73FB2A473J	CHIP R 47K J 1/10W		
R34			RK73FB2A221J	CHIP R 220 J 1/10W		
R35			RK73EB2B472J	CHIP R 4.7K J 1/8W		
R36			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R37			RK73FB2A474J	CHIP R 470K J 1/10W		
R38			RK73EB2B103J	CHIP R 10K J 1/8W		
R39			RK73FB2A103J	CHIP R 10K J 1/10W		
R40 , 41			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R42			RK73FB2A104J	CHIP R 100K J 1/10W		
R43			RK73FB2A224J	CHIP R 220K J 1/10W		
R44			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R45			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R46			RK73FB2A183J	CHIP R 18K J 1/10W		
R47			RK73FB2A393J	CHIP R 39K J 1/10W		
R48			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R49			RK73FB2A331J	CHIP R 330 J 1/10W		
R50			RK73FB2A473J	CHIP R 47K J 1/10W		
R51			RK73FB2A224J	CHIP R 220K J 1/10W		
R52			RK73FB2A225J	CHIP R 2.2M J 1/10W		
R53			RK73FB2A333J	CHIP R 33K J 1/10W		
R55			RK73FB2A103J	CHIP R 10K J 1/10W		
R57			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R58			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R60			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R61 -63			RK73FB2A103J	CHIP R 10K J 1/10W		
R65			RK73FB2A473J	CHIP R 47K J 1/10W		
R66			RK73FB2A104J	CHIP R 100K J 1/10W		
R67			RK73FB2A273J	CHIP R 27K J 1/10W		
R68			RK73FB2A123J	CHIP R 12K J 1/10W		
R69			RK73FB2A183J	CHIP R 18K J 1/10W		
R70			RK73FB2A473J	CHIP R 47K J 1/10W		

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R71			RK73FB2A223J	CHIP R 22K J 1/10W		
R72			RK73FB2A104J	CHIP R 100K J 1/10W		
R73 -76			RK73FB2A223J	CHIP R 22K J 1/10W		
R77			RK73EB2B223J	CHIP R 22K J 1/8W		
R78			RK73FB2A103J	CHIP R 10K J 1/10W		
R79			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R80			RK73EB2B223J	CHIP R 22K J 1/8W		
R81			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R82 -85			RK73FB2A104J	CHIP R 100K J 1/10W		
R86			RK73FB2A184J	CHIP R 180K J 1/10W		
R87			RK73FB2A333J	CHIP R 33K J 1/10W		
R88			RK73EB2B563J	CHIP R 56K J 1/8W		
R89			RK73EB2B683J	CHIP R 68K J 1/8W		
R90			RK73FB2A103J	CHIP R 10K J 1/10W		
R91			RK73FB2A333J	CHIP R 33K J 1/10W		
R92			RK73EB2B683J	CHIP R 68K J 1/8W		
R96 ,97			RK73FB2A223J	CHIP R 22K J 1/10W		
R98			RK73EB2B220J	CHIP R 22K J 1/8W		
R99			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R101-108			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R109-112			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R113,114			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R115,116			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R117,118			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R121,122			RK73FB2A681J	CHIP R 680 J 1/10W		
R123,124			RK73FB2A223J	CHIP R 22K J 1/10W		
R125,126			RK73FB2A103J	CHIP R 10K J 1/10W		
R127			RK73FB2A561J	CHIP R 560 J 1/10W		
R128			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R151			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R153			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R154			RK73FB2A225J	CHIP R 2.2M J 1/10W		
R156			RK73FB2A221J	CHIP R 220 J 1/10W		
R157			RK73FB2A154J	CHIP R 150K J 1/10W		
R160			RK73FB2A104J	CHIP R 100K J 1/10W		
R161			RK73FB2A103J	CHIP R 10K J 1/10W		
R162			RK73FB2A125J	CHIP R 1.2M J 1/10W		
VR1			R12-6421-05	TRIM POT. 4.7K		
VR2			R12-6429-05	TRIMMING POT.(100K)		
W1 -7			R92-2052-05	CHIP R 0 J 1/10W		
W9 ,10			R92-2052-05	CHIP R 0 J 1/10W		
W11 -25			R92-2053-05	CHIP R 0 J 1/8W		
W31 -34			R92-2052-05	CHIP R 0 J 1/10W		
W50			R92-2052-05	CHIP R 0 J 1/10W		
D1			MA110	DIODE		
D2			MA8062	ZENER DIODE		
D3			MA110	DIODE		
D4			MA8091	ZENER DIODE		
D6 -13			MA110	DIODE		
IC1			TA8191F	IC(RF AMP , SERVØ)		
IC2			TC9236AF	IC(SIGNAL PROCESSOR)		
IC3			AN8388SR	IC(MOTOR DRIVER)		
IC5			TA7291F	IC(LOADING)		
IC6			75008GB-696-3B4	IC(MECHANISM MICROCOMPUTER)		

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IC7 IC8 ,9 IC11 IC12 IC13		*	SM5871AS NJM4565MD TA78L05F TC7SU04F TC74AC04F	IC(D/A CONVERTER x8 OVER SAM) IC(OP AMP X2) IC(5V VOLTAGE REGULATOR) IC(INVERTER) IC(INVERTER)		
IC16 IC17 Q1 Q2 Q3			TC7SU04F TC74AC04F 2SB624(BV3) 2SA1037K DTC124EK	IC(INVERTER) IC(INVERTER) TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q4 Q5 Q7 ,8 Q9 Q10			2SC2412K DTA124EK DTC114YK 2SA1037K 2SC2412K	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q11 Q12 Q13 Q14 Q15			DTC114YK DTC124EK 2SA1362(Y) 2SD1624 DTA124EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q16 ,17 Q18 -20 TH1			2SD1757K DTC124EK NT732BTD33K	TRANSISTOR DIGITAL TRANSISTOR THERMISTOR		
MECHANISM ASS'Y (X92-1660-07)						
1 2 3	3A 3D 1C	*	A10-2122-32 A10-2124-63 A10-2198-02	CHASSIS CALKING ASSY CHASSIS ASSY CHASSIS		
6 7 8 9 10	2B 2B, 3B 2A 2A 2A	*	D10-2693-24 D10-2695-14 D10-2696-23 D10-2697-24 D10-2698-34	LEVER LEVER LEVER LEVER ARM ASSY		
12 13 14 16 18	2D 2D 2C 1C 2A	*	D10-2700-04 D10-2701-04 D10-2702-34 D10-2787-03 D10-2716-23	ROD ROD LEVER ASSY LEVER LEVER ASSY		
20 21 22 23 24	3B 2B 2C 2C 2B	*	D12-0604-23 D12-0605-33 D13-1029-24 D13-1030-24 D19-0605-14	CAM CAM GEAR GEAR CLUTCH ASSY		
25 26 27 28 29	2A 2B 2B 2B 3A	*	D13-1040-04 D13-1042-44 D13-1043-14 D13-1044-24 D13-1083-04	GEAR GEAR GEAR GEAR WORM		
30 31 32 33 34	2A 1A 2A 2B 1A		D13-1084-04 D13-1085-24 D13-1086-03 D14-0622-04 D14-0633-04	GEAR GEAR LACK (GEAR) ROLLER ASSY ROLLER		
35 36	2A 2D		D14-0624-13 D21-2109-14	ROLLER SHAFT ASSY		

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37	3A		D21-2111-44	SHAFT ASSY		
38	1A		D23-0905-24	RETAINER		
39	3A		D23-0910-14	RETAINER		
40	3C, 3D		D39-0210-03	DAMPER		
41	2C		F20-1708-14	INSULATING SHEET		
42	2A		G01-2584-04	EXTENSION SPRING		
43	2C		G01-2585-04	EXTENSION SPRING		
46	1C		G01-2588-04	EXTENSION SPRING		
47	2B		G01-2590-04	EXTENSION SPRING		
48	3A		G01-2591-14	EXTENSION SPRING		
49	3A		G01-2604-04	EXTENSION SPRING		
50	1C		G01-2630-04	TORSION COIL SPRING		
51	2D		G02-1136-14	FLAT SPRING		
52	2C		G02-1138-04	FLAT SPRING		
53	2C		G02-1139-14	FLAT SPRING		
54	2D		G02-1140-03	FLAT SPRING ASSY		
55	1C		G02-1151-04	FLAT SPRING		
56	2A		G02-1156-04	FLAT SPRING		
57	3A		G02-1157-04	FLAT SPRING		
-			H25-1103-04	PROTECTION BAG (200X250X0.05)		
58	2C		J11-0603-13	CLAMPER		
59	2C		J12-0662-04	PIN		
60	3B		J12-0663-04	PIN		
62	3C, 3D		J19-4411-14	HOLDER		
63	1A		J19-4412-03	HOLDER		
64	2B		J21-7268-24	MOUNTING HARDWARE ASSY		
65	3A		J21-7270-03	MOUNTING HARDWARE		
66	2A		J21-7271-14	MOUNTING HARDWARE ASSY		
69	2C		J30-1014-14	SPACER		
FPC1	2C		J84-0021-03	FLEXIBLE PRINTED WIRING BOARD		
A	1A		N39-2025-46	PAN HEAD MACHIN SCREW		
B	3A		N09-4023-05	MACHINE SCREW (M2X3,+)		
C	2C		N39-1728-46	PAN HEAD MACHIN SCREW		
D	2C		N80-2006-46	PAN HEAD TAPTITE SCREW		
H	2C		N39-1722-45	PAN HEAD MACHIN SCREW		
S1	2C		S40-1112-05	PUSH SWITCH		
M1	2C		T42-0704-15	DC MOTOR		
M2	2C		T42-0724-15	MOTOR ASSY		
M3	2A		T42-0721-05	DC MOTOR		
PU1	2B		T25-0203-15	OPTICAL PICKUP HEAD		
RF MODULATOR ASS'Y (W02-1393-05)						
301	1J	*	A01-2572-08	METALLIC CABINET		
C101-104			CK73FB1H223K	CHIP C 0.022UF K		
C105			CE04DW1H4R7M	ELECTRO 4.7UF 50WV		
C106			C90-1401-05	ELECTRO 2200UF 16WV		
C107-109			CE04DW1C101M	ELECTRO 100UF 16WV		
C110			CK73FB1H223K	CHIP C 0.022UF K		
C111-115			CK73FB1H102K	CHIP C 1000PF K		
C116			CE04DW1A470M	ELECTRO 47UF 10WV		
C117			CE04DW1C100M	ELECTRO 10UF 16WV		
C201			CE04DW1C221M	ELECTRO 220UF 16WV		
C202			CE04DW1HR47M	ELECTRO 0.47UF 50WV		

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C203			CK73FB1H473K	CHIP C 0.047UF K		
C204			CK73FB1H331K	CHIP C 330PF K		
C205			CK73FB1H104K	CHIP C 0.10UF K		
C206			CE04DW1A101M	ELECTR0 100UF 10WV		
C207			CE04DW1HR22M	ELECTR0 0.22UF 50WV		
C208			CE04DW1A101M	ELECTR0 100UF 10WV		
C209			CE04DW1C221M	ELECTR0 220UF 16WV		
C210			CE04DW1A101M	ELECTR0 100UF 10WV		
C211			CE04DW1HR22M	ELECTR0 0.22UF 50WV		
C212			CE04DW1C221M	ELECTR0 220UF 16WV		
C213			CE04DW1C100M	ELECTR0 10UF 16WV		
C214			CK73FB1H103K	CHIP C 0.010UF K		
C215			CE04DW1H010M	ELECTR0 1.0UF 50WV		
C216			CE04DW1C100M	ELECTR0 10UF 16WV		
C217			CE04DW1A470M	ELECTR0 47UF 10WV		
C301,302			CK73FB1H562K	CHIP C 5600PF K		
C303,304			CE04DW1C100M	ELECTR0 10UF 16WV		
C305,306			CC73FCH1H101J	CHIP C 100PF J		
C307,308			CE04DW1H2R2M	ELECTR0 2.2UF 50WV		
C311,312			CK73FB1H562K	CHIP C 5600PF K		
C313,314			CK73FB1H102K	CHIP C 1000PF K		
C315,316			C90-1042-08	CHIP C 0.15UF K		
C317,318			CE04DW1H010M	ELECTR0 1.0UF 50WV		
C319			CE04DW1C100M	ELECTR0 10UF 16WV		
C320			CK73FB1H103K	CHIP C 0.010UF K		
C321			CC73FCH1H100D	CHIP C 10PF D		
C322			CC73FCH1H221J	CHIP C 220PF J		
C324			CK73FB1H103K	CHIP C 0.010UF K		
C325			CC73FCH1H221J	CHIP C 220PF J		
C326			CK73FB1H222K	CHIP C 2200PF K		
C327			CE04DW1H4R7M	ELECTR0 4.7UF 50WV		
C328			CC73FUJ1H102J	CHIP C 1000PF J		
C329			CC73FUJ1H080D	CHIP C 8PF D		
C330			CC73FUJ1H040C	CHIP C 4PF C		
C331			CC73FCH1H181J	CHIP C 180PF J		
C332			CC73FUJ1H151J	CHIP C 150PF J		
C333			CK73FB1H103K	CHIP C 0.010UF K		
C334			CK73FB1H102K	CHIP C 1000PF K		
C335			CK73FB1H103K	CHIP C 0.010UF K		
C336			CC73FCH1H100D	CHIP C 10PF D		
C337			CK73FB1H103K	CHIP C 0.010UF K		
C339,340			CC73FCH1H471J	CHIP C 470PF K		
C341,342			CK73FB1H222K	CHIP C 2200PF K		
C345,346			CK73FB1H392K	CHIP C 3900PF K		
C347,348			C90-1042-08	CHIP C 0.15UF K		
C349,350			CE04DW1HR22M	ELECTR0 0.22UF 50WV		
TC301,302			C05-0508-08	TRIMMER CAPACITOR		
AT1	2J		E30-3707-08	ANT CORD ASSY		
CN102	2J		E56-0802-08	8P CONNECTOR		
CN104	2J		E08-0413-05	4P CONNECTOR		
DC1	3J	*	E30-4086-08	13P CORD ASSY		
BPF301			L79-0917-08	FILTER		
L101			L33-0934-08	CHOKE COIL		
L304			L35-0067-08	CHOKE COIL		

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L305 L306 L307 L308 L309			L33-0980-08 L33-0979-08 L33-0970-08 L33-0973-08 L33-0972-08	CHOKE COIL CHOKE COIL CHOKE COIL CHOKE COIL CHOKE COIL		
L310 L311, 312 X101 X301 X302			L33-0976-08 L39-1008-08 L78-0518-08 L77-2018-08 L78-0517-08	CHOKE COIL COIL RESONATOR CRYSTAL RESONATOR RESONATOR		
A B	3J 2J		N89-3008-46 N89-3006-46	BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
R107 R108 R109 R117 R121			RK73FB2A101J RK73FB2A472J RK73FB2A223J RK73FB2A101J RK73FB2A103J	CHIP R 100 J 1/10W CHIP R 4.7K J 1/10W CHIP R 22K J 1/10W CHIP R 100 J 1/10W CHIP R 10K J 1/10W		
R122 R123 R129 R130 R131			RK73FB2A203J RK73FB2A222J RK73FB2A223J RK73FB2A102J RK73FB2A220J	CHIP R 20K J 1/10W CHIP R 2.2K J 1/10W CHIP R 22K J 1/10W CHIP R 1.0K J 1/10W CHIP R 22 J 1/10W		
R132 R201 R202 R203 R204			RD14DB2H6R2J RK73FB2A153J RK73FB2A472J RK73FB2A333J RK73FB2A123J	SMALL-RD 6.2 J 1/2W CHIP R 15K J 1/10W CHIP R 4.7K J 1/10W CHIP R 33K J 1/10W CHIP R 12K J 1/10W		
R205 R207 R208 R209-211 R212			RK73FB2A472J RK73FB2A513J RK73FB2A103J RK73FB2A472J RK73FB2A272J	CHIP R 4.7K J 1/10W CHIP R 51K J 1/10W CHIP R 10K J 1/10W CHIP R 4.7K J 1/10W CHIP R 2.7K J 1/10W		
R213 R214 R215 R216 R217			RK73FB2A222J RK73FB2A472J RK73FB2A133J RK73FB2A103J RK73FB2A472J	CHIP R 2.2K J 1/10W CHIP R 4.7K J 1/10W CHIP R 13K J 1/10W CHIP R 10K J 1/10W CHIP R 4.7K J 1/10W		
R218 R219 R220 R221 R222			RK73FB2A133J RK73FB2A334J RK73FB2A223J RK73FB2A102J RK73FB2A220J	CHIP R 13K J 1/10W CHIP R 330K J 1/10W CHIP R 22K J 1/10W CHIP R 1.0K J 1/10W CHIP R 22 J 1/10W		
R303, 304 R305, 306 R307, 308 R309, 310 R311, 312			RK73FB2A562J RK73FB2A182J RK73FB2A123J RK73FB2A393J RK73FB2A122J	CHIP R 5.6K J 1/10W CHIP R 1.8K J 1/10W CHIP R 12K J 1/10W CHIP R 39K J 1/10W CHIP R 1.2K J 1/10W		
R313, 314 R315, 316 R317, 318 R319, 320 R321, 322			RK73FB2A272J RK73FB2A102J R92-2052-05 RK73FB2A272J RK73FB2A682J	CHIP R 2.7K J 1/10W CHIP R 1.0K J 1/10W CHIP R 0 J 1/10W CHIP R 2.7K J 1/10W CHIP R 6.8K J 1/10W		
R323, 324 R325, 326			RK73FB2A753J RK73FB2A472J	CHIP R 75K J 1/10W CHIP R 4.7K J 1/10W		

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R327			RK73FB2A123J	CHIP R 12K J 1/10W		
R328			RK73FB2A271J	CHIP R 270 J 1/10W		
R329			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R330			RK73FB2A124J	CHIP R 120K J 1/10W		
R331			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R332			RK73FB2A103J	CHIP R 10K J 1/10W		
R333			RK73FB2A153J	CHIP R 15K J 1/10W		
R334			RK73FB2A560J	CHIP R 56 J 1/10W		
R335			RK73FB2A221J	CHIP R 220 J 1/10W		
R336			RK73FB2A243J	CHIP R 24K J 1/10W		
R337			RK73FB2A183J	CHIP R 18K J 1/10W		
R338			RK73FB2A101J	CHIP R 100 J 1/10W		
R339			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R340			RK73FB2A101J	CHIP R 100 J 1/10W		
R341, 342			RK73FB2A752J	CHIP R 7.5K J 1/10W		
R345			R92-2052-05	CHIP R 0 J 1/10W		
R346			RK73FB2A154J	CHIP R 150K J 1/10W		
R347, 348			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R349			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R350			RK73FB2A103J	CHIP R 10K J 1/10W		
R351, 352			RK73FB2A122J	CHIP R 1.2K J 1/10W		
VR301			R10-3693-08	POTENTIOMETER		
VR302			R12-3648-08	TRIMMING POTENTIOMETER		
VR303			R12-3647-08	TRIMMING POTENTIOMETER		
RY301			S76-0802-08	RELAY		
SW301			S62-0830-08	SLIDE SWITCH		
SW302			S62-0807-08	SLIDE SWITCH		
D101			DSC30TC	DIODE		
D102-104			DSK10C	DIODE		
D105			MTZ6.2J(B)	ZENER DIODE		
D106			1SS131	DIODE		
D107			MTZ5.6J(B)	ZENER DIODE		
D108, 109			1SS318	DIODE		
D110			1SS131	DIODE		
D111			DSK10C	DIODE		
D201, 202			DA204K	DIODE		
D203-205			1SS131	DIODE		
D206			DA204K	DIODE		
D207			1SS131	DIODE		
D301			KV1450	VARIABLE CAPACITANCE DIODE		
IC101			75004GB-882-3B4	IC		
IC102			PST520F	IC(LOW POWER RESET)		
IC103			TC74HC04AP	IC(HEX INVERTER)		
IC201			UPC4570G	IC		
IC202			NJM78L05A-T3	IC(VOLTAGE REGULATOR/ +5V)		
IC301			BA1405F	IC		
Q101			2SB1240	TRANSISTOR		
Q102			DTC124ES	DIGITAL TRANSISTOR		
Q103			2SA1782T/U-AC	TRANSISTOR		
Q104			DTC124ES	DIGITAL TRANSISTOR		
Q105			2SB1009(P,Q)	TRANSISTOR		
Q106			2SC4640T/U-AC	TRANSISTOR		
Q107			2SB1237	TRANSISTOR		
Q108			DTC114EK	DIGITAL TRANSISTOR		

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Q201-203 Q204 Q205 Q206 Q207			2SC2412K 2SC4640T/U-AC DTC114GS 2SC2412K 2SB1237	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q208 Q301, 302 Q303, 304 Q305 Q306, 307			DTC114EK 2SA1037K DTC323TK 2SA1037K 2SC2059K	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		

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SPECIFICATIONS

Disc Section

Laser Diode GaAlAs ($\lambda=780\text{nm}$)
Digital Filter 8 Times Over Sampling
D/A Converter 1 bit
Spindle Speed* 500~200rpm (CLV)
Wow & Flutter Below Measurable Limit
Modulating Frequency (HI) 88.7MHz
(LO) 88.3MHz

Laser Diode Properties

Material GaAlAs
Wavelength 78nm
Laser Output Power Less than 44.6 μW

* This output is the value measured at a distance of 200mm from the objective lens surface on the Optical Pick-up Block.

General

Operating Voltage 14.4V (11~16V)
Current Consumption 1.4A
Operating Temperature -10~50°C
Size (WxHxD)
(CD auto changer) 281x76x171mm
(11-1/16x3x6-3/4 in.)
(Controller) 59x91x17mm
(2-5/16x3-9/16x11/16 in.)
(Display Unit) 95x35x19mm
(3-3/4x1-3/8x3/4 in.)
(Hide-Away Unit) 150x30x120mm
(5-7/8x1-3/16x1-3/4 in.)

Weight

(CD auto changer) 3.1kg (6.8lb)
(Controller) 50g (0.1lb)
(Display Unit) 0.1kg (0.2lb)
(Hide-Away Unit) 0.8kg (1.8lb)

Note : KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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